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(54) THERMOPLASTIC ELASTOMER COMPOSITION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a new and inexpensive thermoplastic elastomer composition used for a noncoated airbag cover having 40-98 spring hardness without requiring a reinforcing nylon-based net in the airbag cover.

SOLUTION: Flexibility and moldability are improved and a unit cost of the material is reduced by including (a) component of a styrene-based elastomer known as a hydrogenated block copolymer and especially having $\geq 70,000$ number-average molecular weight as a main component and adding and alloying (b) component of a ethylene/ α -olefin copolymer therewith. Flexibility and moldability are improved by adding and alloying (c) component of a paraffinic oil therewith. Developability at a high and a low temperature, damage resistance and moldability are improved and a unit cost of the material is reduced by adding and alloying (d) component of a copolymer of propylene and a 2-8C α -olefin and (e) component of a propylene-based thermoplastic elastomer therewith. Damage resistance, stickiness and releasability when subjected to injection molding are improved by adding (f) component of a silicone oil having $\geq 50,000$ cSt viscosity thereto.

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